BRIEFER ARTICLES.

Description of a new fossil species of Chara.—In a former volume of this journal I described, under the name of Chara compressa, a Chara fruit from the Wasatch group or lower Tertiary rocks of Wales, Utah. That species was well characterized by being longitudinally much depressed, the height being at least one fifth less than the width. The apex was obtuse or even slightly depressed and the number of spirals, as observed in side view, ten. This was the first North American species founded upon the 'fruits,' and I am now able to add a second equally well characterized species.

Chara Stantoni, n. sp. (Fig. 1, 2, 3.).—Fruit (sporostegium) oblongelliptical in general outline, slightly smaller at apex, obtuse, nearly one fifth longer than wide (0.63mm long, 0.48mm in diameter); number of spirals as observed in side view eight or nine; cells furrowed, separated

by thin, low projecting ridges.

This species was obtained by Mr. T. W. Stanton of the United States Geological Survey, for whom I take pleasure in naming it, from the west side of Smith's Fork of the Bear River, about 20 miles north of Cookville, Wyoming, in a locality that is of great geological interest. The horizon is the Bear River formation, which was long known as the Bear River Laramie, but which Mr. Stanton has shown to belong to the lower part of the upper Cretaceous. The 'fruits' are scattered in considerable numbers throughout certain layers of the section, in a matrix of hard fine-grained bluish shaly limestone. They are associated with large numbers of fresh-water shells, among them Pyrgu-Afera humerosa Meek, Corbula pyriformis Meek, Unio vetustus Meek,



Limnæa nitidula Meek, L. haldemani White and Neritina naticiformis White. The 'fruits' and shells are all perfectly silicified and were liberated from the matrix by disolving the limestone in

CHARA STANTONI, n. sp.

This is one of the smallest fossil species known. As stated in the mosis, the sporostegia average 0.63mm by 0.48mm. The longest specmeasured was 0.70 mand the shortest 0.60 mm. The largest dithe sharing of the shortest of the sharing of the smallest of the several instances and the smallest of the smallest of the smallest of the smiddle. becomens were found that had been fractured in the middle,

Lun (1888). 156, 157, figs I, 2. The Stratigraphic Position of the Bear River Formation. Am. Journ. Sci. En 98-115. Feb. 1892.

thus presenting a perfect cross-section (fig. 3). The central portion corresponding to the oöspore was filled with nearly white silica, while the portion that was originally the wall of cellulose surrounding the oöspore was bluish in color. The furrows on the fruit (see fig. 1) caused by the five enveloping cells of the sporostegium, are separated by rather prominent ridges, but the walls are not marked with dots or processes as is so frequently the case. The base (fig. 2) showing the origin of the five enveloping cells, presents a small five sided orifice which are the contract of the five enveloping cells, presents a small five sided orifice which are the contract of the five enveloping cells, presents a small five sided orifice which are the contract of the five enveloping cells, presents a small five sided orifice which are the contract of the co

which answers to the point of attachment.

Among the 60 or more species that have been described in a fossi state, there are several that resemble *Chara Stantoni* in general appearance, but when more closely examined it is found that they all differ in size or number of cells exposed in side view, and as these are characters of great constancy it serves clearly to distinguish them. The geological position of this species prove it to be one of the oldest yet described. So far as now known the genus Chara had its origin in the Triassic, where it is represented by a single species. The Jurassic has two species, the Cretaceous very few, while the most are found in the upper Tertiary. — F. H. Knowlton, U. S. National Moseum, Washington, D. C.

Is Cypripedium spectabile poisonous to the touch?—In the Torto Bulletin, VI, 15 it is stated on the authority of the late Prof. H. H. Babcock of Chicago that after handling Cypripedium spectabile of pubescens he found himself suffering from a severe attack of said poison. He had taken great pains to keep clear of Rhus toxicodendre but notwithstanding, the same symptons continued several successive seasons at a time when he was accustomed to handle the Cypripedian The possibility of any effect of this kind was discredited at the time (Torr. Bull. vi, 22) nor did it seem credible. Some years later a similar case occurred in this vicinity and was reported to me by the attending physician. A lady near whose home grew a fine clump of Cypripedian spectabile had been in the habit of gathering it when in bloom using it sometimes for home decoration and sometimes for the decor ation of the church. At such times for four or five successive seasons she suffered from syptoms of Rhus poisoning, but on careful examination ation no Rhus could be found where the Cypripedium grew. symptoms invariably appeared whenever the Cypripedium was in the house and disappeared with its removal, and on her removal to another part of the country never re-appeared. In fact, when she ceased lecting the plant she escaped entirely.

A third instance of a similar kind occurred in this part of the control try in connection with one of my own students who had always been the habit of handling Rhus with impunity and had done so for years